

Table 9
SAT Soil Analytical Results Summary (Radioisotopes)
Holy Trinity Cemetery Radiological Site
Robert Avenue, Lewiston, New York

Location ID#	S01			S02			S03			S14			S04			S05			S06			
SAT Sample ID#	S01 (18-30)			S02 (24-36)			S03 (18-30)			S14 (18-30)*			S04 (24-36)			S05 (24-36)			S06 (24-36)			
Sample Depth (inches)	18 - 30			24 - 36			18 - 30			18 - 30			24 - 36			24 - 36			24 - 36			
Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			
Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	
Radioisotope	EPA SSRAL																					
Uranium-238	0.814	0.917	V	0.212	0.785	V	0.198	1.63	V	0.302	1.82	V	0.324	0.762	V	0.195	1.08	V	0.238	1.09	V	0.235
Thorium-230	0.7715	1.16	V	0.329	1.38	V	0.317	1.86	V	0.335	1.76	V	0.316	1.19	V	0.261	1.31	V	0.27	1.34	V	0.262
Uranium-233/234	0.6725	0.568	V	0.163	0.871	V	0.21	1.72	V	0.314	1.73	V	0.316	0.854	V	0.207	0.997	V	0.227	1.18	V	0.248
Radium-226	1.1455	0.874	V	0.249	1.03	V	0.322	1.92	V	0.35	1.7	V	0.331	1.19	V	0.272	1.09	V	0.258	1.44	V	0.315
Thorium-232	1.01	0.996	V	0.293	1.25	V	0.298	2.26	V	0.377	1.95	V	0.335	0.966	V	0.232	1.64	V	0.307	0.959	V	0.215
Radium-228	0.8445	1.49	V	0.302	1.94	V	0.464	2.96	V	0.475	2.51	V	0.514	1.39	V	0.36	1.67	V	0.359	1.56	V	0.333
Thorium-228	1.048	0.98	V	0.306	1.24	V	0.302	3.06	V	0.46	2.04	V	0.347	0.989	V	0.239	1.65	V	0.312	1.09	V	0.235
Uranium-235/236	0.0913	ND			ND			ND			0.192			0.106			0.0958			0.0729		
Location ID#	S07			S08			S09			S10			S11			S12			S13			
SAT Sample ID#	S07 (24-36)			S08 (24-36)			S09 (24-36)			S10 (24-36)			S11 (24-36)			S12 (24-36)			S13 (24-36)			
Sample Depth (inches)	24 - 36			24 - 36			24 - 36			24 - 36			24 - 36			24 - 36			24 - 36			
Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			
Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	
Radioisotope	EPA SSRAL																				Background	
Uranium-238	0.814	9.97	V	1.08	2.4	V	0.383	0.775	V	0.195	2.78	V	0.418	1.54	V	0.285	0.743	V	0.189	0.589	V	0.177
Thorium-230	0.7715	10.6	V	1.18	2.33	V	0.394	0.947	V	0.216	2.84	V	0.448	1.63	V	0.321	0.644	V	0.24	0.729	V	0.192
Uranium-233/234	0.6725	8.95	V	0.995	2.09	V	0.352	0.742	V	0.191	2.9	V	0.431	1.35	V	0.264	0.595	V	0.169	0.44	V	0.159
Radium-226	1.1455	1.74	V	0.332	1.26	V	0.244	0.727	V	0.239	1.48	V	0.26	1.54	V	0.294	1.09	V	0.372	0.979	V	0.247
Thorium-232	1.01	23.9	V	2.31	5.14	V	0.666	0.896	V	0.21	5.16	V	0.669	2.54	V	0.42	0.926	V	0.292	0.758	V	0.196
Radium-228	0.8445	4.39	V	0.584	3.12	V	0.459	1.63	V	0.387	2.46	V	0.391	1.89	V	0.38	0.783	V	0.387	0.824	V	0.303
Thorium-228	1.048	23.6	V	2.29	5.28	V	0.681	0.933	V	0.217	5.31	V	0.685	2.3	V	0.397	0.934	V	0.286	1.01	V	0.232
Uranium-235/236	0.0913	0.426	V	0.163	0.126	V	0.0876	0.105	V	0.077	0.159	V	0.0944	ND			ND			ND		

Notes:

V = Verified by Certified Health Physicist

ND - Non-Detect.

pCi/g = picocuries per gram

µg/L - micrograms per liter.

The Environmental Protection Agency's (EPA) Site-Specific Removal Action Level (SSRAL) was based on two standard deviations above the mean site-specific background sample concentration for that radioisotope.

Bold RED values equal or exceed the upper limit range of the EPA SSRAL for that radioisotope.

EPA SSRAL values are in pCi/g.

Analytical data is based on December 2013 site assessment conducted by Weston Solutions, Inc., Site Assessment Team (SAT).

S14 (18-30)* is a duplicate of S03 (18-30)